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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/604,205	07/01/2003	Robert S. Horton	BUR920030019US1	1204
28211 7	590 05/20/2004		EXAMINER	
FREDERICK W. GIBB, III			VU, QUANG D	
MCGINN & G 2568-A RIVA			ART UNIT	PAPER NUMBER
SUITE 304			2811	
ANNAPOLIS,	MD 21401		DATE MAILED: 05/20/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
Office Action Comments	10/604,205	HORTON ET AL.	
Office Action Summary	Examiner	Art Unit	
	Quang D Vu	2811	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address -	-
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period who Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	6(a). In no event, however, may a reply be tim within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	rely filed s will be considered timely. the mailing date of this communica O (35 U.S.C. § 133).	tion.
Status			
1) Responsive to communication(s) filed on	<u>.</u> .		
2a) ☐ This action is FINAL . 2b) ☑ This	action is non-final.		
3) Since this application is in condition for allowan	ce except for formal matters, pro	secution as to the merits	is
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	i3 O.G. 213.	
Disposition of Claims			
4) Claim(s) <u>1-27</u> is/are pending in the application.			
4a) Of the above claim(s) is/are withdraw	vn from consideration.		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-27</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/or	election requirement.		
Application Papers			
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) □ acce		- - - - -	
Applicant may not request that any objection to the o	, , , , , , , , , , , , , , , , , , , ,		
Replacement drawing sheet(s) including the correcti			1(d).
11)☐ The oath or declaration is objected to by the Ex	· · · · · · · · · · · · · · · · · · ·		
Priority under 35 U.S.C. § 119	· ,		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	priority under 35 U.S.C. § 119(a)	-(d) or (f).	
1. Certified copies of the priority documents	s have been received.		
2. Certified copies of the priority documents		on No	
3. ☐ Copies of the certified copies of the prior	• •		
application from the International Bureau	•	·	
* See the attached detailed Office action for a list of	of the certified copies not receive	d.	
Attachment(s)			
1) X Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)	
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	te	
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>07/01/03</u> .	5) Notice of Informal P 6) Other:	atent Application (PTO-152)	
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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent No. 6,415,344 to Jones et al. in view of US Patent No. 6,630,904 to Gustafson et al.

Regarding claim 1, Jones et al. (figures 1-27) teach an integrated circuit chip comprising: a segmented data line; and

data positioned between segments of the segmented data line,

wherein the data are adapted to simultaneously propagate different data portions along segments of the segmented data line, such that a first segment of the segmented data line carries a second segment of the a first data portion and segmented data line simultaneously carries a second data portion.

Jones et al. differ from the claimed invention by not showing data propagators. However, Gustafson et al. teach data propagators. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to incorporate the teaching of Gustafson et al. into the device taught by Jones et al. because it transmits data from one generation to other generation. The combined device shows data propagators positioned between segments of the segmented data line, wherein the data propagators are adapted to

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simultaneously propagate different data portions along segments of the segmented data line, such that a first segment of the segmented data line carries a second segment of the a first data portion and segmented data line simultaneously carries a second data portion.

Regarding claim 2, the combined device shows a collector connected to the segmented data line, wherein the collector is adapted to combined the different data portions into a single data transmission.

Regarding claim 3, the combined device shows an initiator adapted to break up the single data transmission into the different data portions.

Regarding claim 4, the combined device shows the different data portions comprise self-timed data portions.

Regarding claim 5, the combined device shows the segmented data line comprises a single data communication line between a single data source and a single data target.

Regarding claim 6, the combined device shows the segmented data line comprises a data communication network between at least one data source and multiple data targets.

Regarding claim 7, the combined device shows the data propagators are adapted to return a data receipt acknowledgment to a previous data propagator as each of the data propagators forward data to the next data propagator.

Regarding claim 8, the disclosures of Jones et al. and Gustafson et al. are discussed as applied to claim 1 above.

Regarding claim 9, the combined device shows the data transmitter, the data propagator, and the data receiver are synchronized with each other.

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Regarding claim 10, the combined device shows the data break up a data segment received from the data source into a plurality of smaller self-timed data portions.

Regarding claim 11, the combined device shows the data transmitter and the data propagator are adapted to transmit one of the self-timed data portions along each of the segments of the segmented data line at a time, such that each of the segments of the segmented data line simultaneously transmits a different self-timed data portion.

Regarding claim 12, the combined device shows the data reassemble the self-timed data Regarding claim 13, the combined device shows the data source and the data target are located on a single integrated circuit chip.

Regarding claim 14, the disclosures of Jones et al. and Gustafson et al. are discussed as applied to claim 1 above.

Regarding claim 15, the combined device shows the data transmitter, the data propagator, and the data receiver are synchronized with each other.

Regarding claim 16, the combined device shows the data transmitter is adapted to break up a data segment received from the data source into a plurality of smaller self-timed data portions.

Regarding claim 17, the combined device shows the data transmitter and the data propagator are adapted to transmit one of the self-timed data portions along each of the segments of the segmented data line at a time, such that each of the segments of the segmented data line simultaneously transmits a different self-timed data portion.

Regarding claim 18, the combined device shows the data reassemble the self-timed data receiver it is adapted to portions back into the data segment.

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Regarding claim 19, the combined device shows the data source and the data target are located on a single integrated circuit chip.

Regarding claim 20, the disclosures of Jones et al. and Gustafson et al. are discussed as applied to claim 1 above.

Regarding claim 21, the combined device shows breaking a single data transmission into different data portions, wherein the different data portions include the first data portion and the second data portion.

Regarding claim 22, the combined device shows reassembling the different data portions into the single data transmission after all of the different data portions have been individually transmitted along all portions of the segmented data line.

Regarding claim 23, the combined device shows the data propagators are positioned between each segment of the data line, and returning a data receipt acknowledgment to a previous data propagator as data to the next data propagator.

Regarding claim 24, the combined device shows simultaneously propagates different data portions along segment of the segmented data line, such that the second segment of the segmented data line carries the first data portion and the first segment of the segmented data line simultaneously carries the second data portion.

Regarding claim 25, the disclosures of Jones et al. and Gustafson et al. are discussed as applied to claim 1 above.

Regarding claim 26, the combined device shows data propagators are positioned between each segments of the segmented data line, and returning a data receipt acknowledgment to a

previous data propagator as each of the data propagators forward data to the next data propagator.

Regarding claim 27, the combined device shows simultaneously propagates different data portions along segments of the segmented data line, such that the second segment of the segmented data line carries the first data portion and the first segment of the segmented data line simultaneously carries the second data portion.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Quang D Vu whose telephone number is 571-272-1667. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eddie Lee can be reached on 571-272-1732. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Application/Control Number: 10/604,205

qvu May 14, 2004

Primary Examiner